	FOR		All Territory Served Community, Town or City	
	P.S.C. KY. NO	·	9	
	<u>Original</u>	_SHEET NO	321.20	
Shelby Energy Cooperative, Inc.	CANCELLING	P.S.C. KY. NO	5	
(Name of Utility)	<u>Original</u>	_SHEET NO	116	
	LEVEL 2			
Application For Interconnection And Net Metering Use this Application form when generating facility recognized testing laboratory to meet the requirements under Level 1.	is not inverter-based or is n	ot certified by a y of the additional	nationally conditions	
Submit this Application (optional: along with an application)	ation fee of \$100) to:			
Shelby Energy Coo 620 Old Finchville Shelbyville, KY 40	Rd			
If you have questions regarding this Application or its s	status, contact the Cooperative at	:		
(502) 633-4420 or (800) 292-6585 or	by e-mail at shelbyenergy@she	byenergy.com		
Member Name:	Account Number:		_	
Member Address:			_	
Project Contact Person:			_	
Phone No.: Email Addres	ss (Optional):			
Provide names and contact information for other contra and installation of the generating facilities:	ctors, installers, or engineering f	irms involved in th	e design	
Total Generating Capacity of Generating Facility:				
Type of Generator: Inverter-Based	Synchronous Indu	ction		
Power Source: Solar Wind	]Hydro 🔲 Biogas 🔲	Biomass		
Adequate documentation and information must be s Typically this should include the following:	ubmitted with this application	to be considered	complete.	
DATE OF ISSUE January 5, 2016  Month / Date / Year	DUBLI	KENTUCKY C SERVICE COM	MISSION	
DATE EFFECTIVE February 5, 2016  Month / Date / Year		JEFF R. DEROU XECUTIVE DIREC	EN	
ISSUED BY (Signature of Officer)	Nactri	Count Kindle	u	
TITLE President & CEO		EFFECTIVE	Į.	
BY AUTHORITY OF ORDER OF THE PUBLIC SERVICE	COMMISSION	<b>2/5/2016</b> NT TO 807 KAR 5:011 S	ECTION 9 (1)	
IN CASE NO. DATED	PURSUA	141 TO 007 NAK 5:011 S	ECTION 8 (1)	

		FOR	All Territory Served	
			Community, Town or C	
		P.S.C. KY. NO.	· -	9
		Original	SHEET NO	321.21
<u>S</u>	Shelby Energy Cooperative, Inc. (Name of Utility)	CANCELLING	P.S.C. KY. NO.	_ 5
	(Ivalie of Culity)	Original	SHEET NO.	117
1.	Single-line diagram of the member's system showing a the point of interconnection with the Cooperative's transformers, switchgear, switches, breakers, fuses, vol sizes, equipment ratings, and transformer connections.	s distribution sy	stem, including g	generators,
2.	Control drawings for relays and breakers.			
3.	Site Plans showing the physical location of major equip	oment.		
4.	Relevant ratings of equipment. Transformer information ratings, winding arrangements, and impedance.	ion should inclu	ide capacity rating	s, voltage
5.	If protective relays are used, settings applicable to the relays are used, a description of how the relay is interconnection protection.			
6.	A description of how the generator system will be opera	ated including al	l modes of operatio	n.
7.	For inverters, the manufacturer name, model number, a attach documentation showing that inverter is certified to meet the requirements of UL1741.			
8.	For synchronous generators, manufacturer and model data (Xd, X'd, & X"d).	number, namer	plate ratings, and is	mpedance
9.	For induction generators, manufacturer and model nu current.	umber, namepla	te ratings, and loc	ked rotor
Membe	er Signature:	Date:		
DATE C	DF ISSUE <u>January 5, 2016</u> Month / Date / Year		KENTUCKY	
DATE F	EFFECTIVE February 5, 2016  Month / Date / Year		C SERVICE COMM <b>JEFF R. DEROUE!</b>	N
ISSUED	DBY		XECUTIVE DIRECTO TARIFF BRANCH	
	(Signature of Officer)	_	Rut Kirthen	
	President & CEO		EFFECTIVE	
	THORITY OF ORDER OF THE PUBLIC SERVICE COMMISSION		2/5/2016	
IN CAS	E NODATED	PUKSUAI	NT TO 807 KAR 5:011 SEC	CHON 9 (1)

		FOR	All Territory Served Community, Town or City
		D.C.C. KV. NO.	
		P.S.C. KY. NO.	9
		Original	SHEET NO. 321.22
Shelby Energy Cooperation (Name of Utility)	ve, Inc.	CANCELLING 1	P.S.C. KY. NO5
(		<u>Original</u>	SHEET NO. 118
		EL 2 ION AGREEMENT	
THIS INTERCONNECTION of	by and between	·	
WITNESSETH:			
WHEREAS, Member is inst and equipment (Generating Fa system, which Generating Fa herein by this Agreement, and	acility) used to interconnec acility is more fully describ	t and operate in parallel	l with Cooperative's electric
Location:		· · · · · · · · · · · · · · · · · · ·	<del></del>
	ype:		
NOW, THEREFORE, in cor	nsideration thereof, Membe	r and Cooperative agree	e as follows:
Cooperative agrees to allow the Cooperative's electric systall the Terms and Condition Exhibit A.	tem and the Member agrees	s to abide by Cooperativ	ve's Net Metering Tariff and
TERMS AND CONDITION	IS:		
standard metering e measuring the flow or or meters or distrib	equipment, through a star f electricity in two (2) direct	ndard kilowatt-hour mections. If the Member re	services, without charge for letering system capable of equests any additional meter w in each direction, such
DATE OF ISSUE	January 5, 2016 Month / Date / Year		VENTUOIV
DATE EFFECTIVE		PUBLIC	KENTUCKY SERVICE COMMISSION
DAIL LITECITYL	Month / Date / Year		JEFF R. DEROUEN KECUTIVE DIRECTOR
ISSUED BY	Debra J. Warten	;	TARIFF BRANCH
1990ED B I	(Signature of Officer)		1 , 1/10
TITLE	President & CEO	1	Bunt Kirtley
BY AUTHORITY OF ORDER OF 3	TUE DITELTO SERVICE COMM	negion	EFFECTIVE
IN CASE NO.			<b>2/5/2016</b> IT TO 807 KAR 5:011 SECTION 9 (1)
IN CASE NO.			10 007 10 11 0 0 0 1 0 1 1 1 1 1 1 1 1 1

	FOR	All Territory Served	
		Community, Town or C	City
	P.S.C. KY. NO.		9
	Original	SHEET NO.	321.23
Shelby Energy Cooperative, Inc.	CANCELLING	P.S.C. KY. NO	5
(Name of Utility)	Original	SHEET NO.	119

- 2) The Member shall install, operate, and maintain, at the Member's sole cost and expense, any control, protective, or other equipment on the Member's system required by Shelby Energy Cooperative's technical interconnection requirements based on IEEE 1547, the NEC, accredited testing laboratories such as Underwriters Laboratories, and the manufacturer's suggested practices for safe, efficient and reliable operation of the generating facility in parallel with Shelby Energy Cooperative's electric system. The Member shall bear full responsibility for the installation, maintenance and safe operation of the generating facility. Upon reasonable request from Shelby Energy Cooperative, the Member shall demonstrate generating facility compliance.
- 3) The generating facility shall comply with, and the Member shall represent and warrant its compliance with: (a) any applicable safety and power quality standards established by IEEE and accredited testing laboratories such as Underwriters Laboratories; (b) the NEC as may be revised from time to time; (c) Shelby Energy Cooperative's rules, regulations, and Service Regulations as contained in Shelby Energy Cooperative's Retail Electric Tariff as may be revised from time to time with the approval of the Kentucky Public Service Commission (Commission); (d) the rules and regulations of the Commission, as such rules and regulations may be revised from time to time by the Commission; and (e) all other applicable local, state, and federal codes and laws, as the same may be in effect from time to time. Where required by law, the Member shall pass an electrical inspection of the generating facility by a local authority having jurisdiction over the installation.
- 4) Any changes or additions to Shelby Energy Cooperative's system required to accommodate the generating facility shall be considered excess facilities. The Member shall agree to pay Shelby Energy Cooperative for actual costs incurred for all such excess facilities prior to construction.
- 5) The Member shall operate the generating facility in such a manner as not to cause undue fluctuations in voltage, intermittent load characteristics or otherwise interfere with the operation of Shelby Energy Cooperative's electric system. At all times when the generating facility is being operated in parallel with Shelby Energy Cooperative's electric system, the Member shall operate the generating facility in such a manner that no adverse impacts will be produced thereby to the service quality rendered by Shelby Energy Cooperative to any of its other members or to any electric system interconnected with Shelby Energy Cooperative's electric system. The Member shall agree that the interconnection and operation of the generating facility is secondary to, and shall not interfere with, Shelby Energy Cooperative's ability to meet its primary responsibility of furnishing reasonably

DATE OF ISSUE	January 5, 2016 Month / Date / Year	KENTUCKY PUBLIC SERVICE COMMISSION
DATE EFFECTIVE	February 5, 2016 Month / Date / Year	<b>JEFF R. DEROUEN</b> EXECUTIVE DIRECTOR
ISSUED BY	(Signature of Officer)	Bunt Kirtley
TITLE	President & CEO	EFFECTIVE
BY AUTHORITY OF ORDER O	OF THE PUBLIC SERVICE COMMISSIONDATED	<b>2/5/2016</b> PURSUANT TO 807 KAR 5:011 SECTION 9 (1)

	FOR	All Territory Served Community, Town or City	
	P.S.C. KY. NO.		9
	Original	_SHEET NO	321.24
Shelby Energy Cooperative, Inc.	CANCELLING	P.S.C. KY. NO	5
(Name of Utility)	Original	_SHEET NO	120

adequate service to its members.

- 6) The Member shall be responsible for protecting, at the Member's sole cost and expense, the generating facility from any condition or disturbance on Shelby Energy Cooperative's electric system, including, but not limited to, voltage sags or swells, system faults, outages, loss of a single phase of supply, equipment failures, and lightning or switching surges, except that Shelby Energy Cooperative shall be responsible for repair of damage caused to the generating facility resulting solely from the negligence or willful misconduct on the part of Shelby Energy Cooperative.
- 7) After initial installation, Shelby Energy Cooperative shall have the right to inspect and/or witness commissioning tests, as specified in the Level 1 or Level 2 Application and approval process. Following the initial testing and inspection of the generating facility and upon reasonable advance notice to the Member, Shelby Energy Cooperative shall have access at reasonable times to the generating facility to perform reasonable on-site inspections to verify that the installation, maintenance, and operation of the generating facility comply with the requirements of this tariff.
- 8) For Level 1 and 2 generating facilities, an eligible Member shall furnish and install on the Member's side of the point of common coupling a safety disconnect switch which shall be capable of fully disconnecting the Member's energy generating equipment from Shelby Energy Cooperative's electric service under the full rated conditions of the Member's generating facility. The external disconnect switch (EDS) shall be located adjacent to Shelby Energy Cooperative's meters or the location of the EDS shall be noted by placing a sticker on the meter, and shall be of the visible break type in a metal enclosure which can be secured by a padlock. If the EDS is not located directly adjacent to the meter, the Member shall be responsible for ensuring that the location of the EDS is properly and legibly identified for so long as the generating facility is operational. The disconnect switch shall be accessible to Shelby Energy Cooperative personnel at all times. Shelby Energy Cooperative may waive the requirement for an EDS for a generating facility at its sole discretion, and on a case-by-case basis, upon review of the generating facility operating parameters and if permitted under Shelby Energy Cooperative's safety and operating protocols.

DATE OF ISSUE	January 5, 2016	
DATE EFFECTIVE	Month / Date / Year February 5, 2016	KENTUCKY PUBLIC SERVICE COMMISSION
DATE EFFECTIVE.	Month / Date / Year	<b>JEFF R. DEROUEN</b> EXECUTIVE DIRECTOR
ISSUED BY	Debra J. Martin	TARIFF BRANCH
	(Signature of Officer)	D + 1/2 18
TITLE	President & CEO	EFFECTIVE "
	R OF THE PUBLIC SERVICE COMMISSION	2/5/2016
IN CASE NO.	DATED	PURSUANT TO 807 KAR 5:011 SECTION 9 (1)

	FOR	All Territory Served Community, Town or City	
	P.S.C. KY. NO.		9
	Original	_SHEET NO	321.25
Shelby Energy Cooperative, Inc.	CANCELLING	P.S.C. KY. NO	5
(Name of Utility)	Original	_SHEET NO	121

- 9) Shelby Energy shall have the right and authority at Shelby Energy Cooperative's sole discretion to isolate the generating facility or require the Member to discontinue operation of the generating facility if Shelby Energy Cooperative believes that: (a) continued interconnection and parallel operation of the generating facility with Shelby Energy Cooperative 's electric system may create or contribute to a system emergency on either Shelby Energy Cooperative 's or the Member's electric system; (b) the generating facility is not in compliance with the requirements of this tariff, and the noncompliance adversely affects the safety, reliability, or power quality of Shelby Energy Cooperative 's electric system; or (c) the generating facility interferes with the operation of Shelby Energy Cooperative 's electric system. In non-emergency situations, Shelby Energy Cooperative shall give the Member notice of noncompliance including a description of the specific noncompliance condition and allow the Member a reasonable time to cure the noncompliance prior to isolating the generating facilities. In emergency situations, when Shelby Energy Cooperative is unable to immediately isolate or cause the Member to isolate only the generating facility, Shelby Energy Cooperative may isolate the Member's entire facility.
- 10) The Member shall agree that, without the prior written permission from Shelby Energy Cooperative, no changes shall be made to the generating facility as initially approved. Increases in generating facility capacity will require a new "Application for Interconnection and Net Metering" which will be evaluated on the same basis as any other new application. Repair and replacement of existing generating facility components with like components that meet UL 1741 certification requirements for Level 1 facilities and not resulting in increases in generating facility capacity is allowed without approval.
- 11) To the extent permitted by law, the Member shall protect, indemnify, and hold harmless Shelby Energy Cooperative and its directors, officers, employees, agents, representatives and contractors against and from all loss, claims, actions or suits, including costs and attorneys fees, for or on account of any injury or death of persons or damage to property caused by the Member or the Member's employees, agents, representatives and contractors in tampering with, repairing, maintaining, or operating the Member's generating facility or any related equipment or any facilities owned by Shelby Energy Cooperative except where such injury, death or damage was caused or contributed to by the fault or negligence of Shelby Energy Cooperative or its employees, agents, representatives, or contractors.

DATE OF ISSUE	January 5, 2016 Month / Date / Year	KENTUCKY PUBLIC SERVICE COMMISSION
DATE EFFECTIVE	February 5, 2016 Month / Date / Year	<b>JEFF R. DEROUEN</b> EXECUTIVE DIRECTOR
ISSUED BY	(Signature of Officer)	Bunt Kirtley
TITLE	President & CEO	EFFECTIVE
BY AUTHORITY OF ORDER O	OF THE PUBLIC SERVICE COMMISSIONDATED	<b>2/5/2016</b> PURSUANT TO 807 KAR 5:011 SECTION 9 (1)

	FOR All Territory Served		
		Community, Town or C	ity
	P.S.C. KY. NO.		9
	<u>Original</u>	SHEET NO	321.26
Shelby Energy Cooperative, Inc.	CANCELLING	P.S.C. KY. NO <b>.</b>	5
(Name of Utility)	Original	_SHEET NO	122

The liability of Shelby Energy Cooperative to the Member for injury to person and property shall be governed by the tariff(s) for the class of service under which the Member is taking service.

- 12) The Member shall maintain general liability insurance coverage (through a standard homeowner's, commercial, or other policy) for both Level 1 and Level 2 generating facilities. The Member shall, upon request, provide Shelby Energy Cooperative with proof of such insurance at the time that application is made for net metering.
- 13) By entering into an Interconnection Agreement, or by inspection, if any, or by non-rejection, or by approval, or in any other way Shelby Energy Cooperative does not give any warranty, express or implied, as to the adequacy, safety, compliance with applicable codes or requirements, or as to any other characteristics, of the generating facility equipment, controls, and protective relays and equipment.
- 14) A Member's generating facility is transferable to other persons or service locations only after notification to the Shelby Energy Cooperative has been made and verification that the installation is in compliance with this tariff. Upon written notification that an approved generating facility is being transferred to another person, member, or location, Shelby Energy Cooperative will verify that the installation is in compliance with this tariff and provide written notification to the member(s) within 20 business days. If the installation is no longer in compliance with this tariff, Shelby Energy Cooperative will notify the Member in writing and list what must be done to place the facility in compliance.
- 15) The Member shall retain any and all Renewable Energy Credits (RECs) that may be generated by their generating facility.

DATE OF ISSUE	January 5, 2016	
DATE EFFECTIVE	Month / Date / Year February 5, 2016	KENTUCKY PUBLIC SERVICE COMMISSION
DATE EFFECTIVE	Month / Date / Year	<b>JEFF R. DEROUEN</b> EXECUTIVE DIRECTOR
ISSUED BY	Debra J. Nortin	TARIFF BRANCH
TITLE	(Signature of Officer)  President & CEO	Bunt Kirtley
	ER OF THE PUBLIC SERVICE COMMISSION	EFFECTIVE **
IN CASE NO.		<b>2/5/2016</b> PURSUANT TO 807 KAR 5:011 SECTION 9 (1)

		]	FOR	All Territory Serve	ed r Citv
		]	P.S.C. KY. NO.		•
				SHEET NO.	
Shelby Energy Coop	perative. Inc.	<del>-</del>	_	P.S.C. KY. NO	
(Name of Util		-		SHEET NO	
EFFECTIVE T	ERM AND TERMINAT	ION RIGHTS			
terminated. This Agreement at any (b) Shelby Energoperation of the thirty (30) days conditions of the of Shelby Energopportunity to cuat least thirty (3 regulation or stathe new law or stathe statements.	becomes effective when end Agreement may be term by time by giving Shelby End gy Cooperative may term generating facility; (c) eith prior written notice that the Agreement or the Rules of y Cooperative, so long as the default; (d) Shelby (d) days notice in the eventuate affecting this Agreement that the Agreement country of the Parties has a sure that the cooperative of the Parties has a sure that the cooperative of the Parties has a sure that the cooperative of the Parties has a sure that the cooperative of the Parties has a sure that the cooperative of the Parties has a sure that the cooperative of the Parties has a sure that the cooperative of the Parties has a sure that the cooperative of the Parties has a sure that the cooperative of the Parties has a sure that the cooperative of the Parties has a sure that the cooperative of the Parties has a sure that the cooperative of the parties of t	ninated as following Cooperation in the upon faither party may the other party or any rate school the notice special Energy Cooperation that there is nent or which in the cooperation is the cooperation of the cooperation in the cooperation is the cooperation of the cooperation in the cooperation is the cooperation of the cooperation in the cooperation is the cooperation of the cooperation of the cooperation is the cooperation of the cooperation o	ows: (a) The attive at least siture by the Materminate by go ty is in defautedule, tariff, recifies the basis rative may terms a material corenders the systems.	Member may ter xty (60) days' wr fember to contin- iving the other palt of any of the egulation, contract for termination minate by giving thange in an apparter	rminate this itten notice; are ongoing party at least exterms and et, or policy and there is the Member licable law, pliance with
above written.  COOPERATIV	E NAME	MEMBI	ER		
Ву:		Ву:			
Printed Name		Printed N	Name		
Title:		Title:			
OATE OF ISSUE	January 5, 2016 Month / Date / Year		DI IDI IO	KENTUCKY C SERVICE COM	
OATE EFFECTIVE	February 5, 2016 Month / Date / Year			JEFF R. DEROU XECUTIVE DIREC	EN
SSUED BY	(Signature of Officer)	lection		TARIFF BRANCH	
TTLE	President & CEO			Bunt Kirtler	f
	R OF THE PUBLIC SERVICE (			2/5/2016	
N CASE NO	DATED		PURSUAN	NT TO 807 KAR 5:011 S	ECTION 9 (1)

	FOR	All Territory Served Community, Town or City	
	P.S.C. KY. NO.		9
	Original	_SHEET NO	321.28
Shelby Energy Cooperative, Inc. (Name of Utility)	CANCELLING	P.S.C. KY. NO	5
	Original	_SHEET NO	124

## Exhibit A (To be developed by each member system)

Exhibit A will contain additional detailed information about the Generating Facility such as a single line diagram, relay settings, and a description of operation.

When construction of Utility facilities is required, Exhibit A will also contain a description and associated cost.

Exhibit A will also specify requirements for a Utility inspection and witness test and when limited operation for testing or full operation may begin.

DATE OF ISSUE	January 5, 2016
	Month / Date / Year
DATE EFFECTIVE	February 5, 2016
	Month / Date / Year
ISSUED BY_	Delira J. Nartin
	(Signature of Officer)
TITLE	President & CEO
BY AUTHORITY OF ORDER OF TI	HE PUBLIC SERVICE COMMISSION
IN CASE NO.	DATED

KENTUCKY
PUBLIC SERVICE COMMISSION

JEFF R. DEROUEN EXECUTIVE DIRECTOR

TARIFF BRANCH

EFFECTIVE

**2/5/2016**PURSUANT TO 807 KAR 5:011 SECTION 9 (1)